ESD NEWS

President Emeritus of Tufts University and former MIT chancellor Larry Bacow presented the annual Charles L. Miller Lecture (co-sponsored by ESD and CEE) on April 22nd. Dr. Bacow spoke on "The Research University in the Digital Age." A news item and video of the talk will be available sometime next week.

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The Production and Operations Management Society honored Professor David Simchi-Levi for his contributions to the field with an article about him in the January-February print issue of the journal Production and Operations Management. The article cites Simchi-Levi’s contributions to both the theoretical and practical aspects of supply-chain management as demonstrated by the quality and reach of his published research; the application of this research in corporate practice; the popularity of his second book as a graduate business education text (Designing and Managing the Supply Chain: Concepts, Strategies and Case Studies 3rd Edition, McGraw-Hill/Irwin, 2007, by Simchi-Levi, Philip Kaminsky and Edith Simchi-Levi); and his seven years as editor in chief of Operations Research. The journal honors two to three researchers annually. Past honorees include MIT Sloan professors Jay Forrester and Stephen Graves.

Also, Prof. Simchi-Levi has been elected a Distinguished MSOM Fellow. (MSOM is the Manufacturing and Service Operations Management society of INFORMS.) Read more here.

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The working paper (ESD-WP-2012-26, a.k.a. Sloan Research Paper No.4978-12) written by Wen Feng, Donald Lessard, Edward Crawley, Olivier de Weck, and Bruce Cameron, "Understanding the Impacts of Indirect Stakeholder Relationships - Stakeholder Value Network Analysis and Its Application to Large Engineering Projects," was recently listed on SSRN's (Social Science Research Network) Top Ten download list for: IRPN: Governance (Sub-Topic), IRPN: Innovation & Securities Law & Policy (Sub-Topic) and Stakeholder Management & Stakeholder Responsibilities eJournal.

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Dr. Matt Silver (ESD PhD 2010) and Prof. Olivier de Weck were awarded U.S. Patent 8,260,652 for a "Method and apparatus for determining and utilizing a time-expanded decision network." (The patent application was filed by MIT on January 4, 2008 and was awarded on September 4, 2012.) Abstract: A method, apparatus and computer program for determining and utilizing a time-expanded decision network is presented. A set of potential system configurations is defined. Next, switching costs are quantified to create a "static network" that captures the difficulty of switching among these configurations. A time-expanded decision network is provided by expanding the static network in time, including chance and decision nodes. Minimum cost paths through the network are evaluated under plausible operating scenarios. The set of initial design configurations are iteratively modified to exploit high-leverage switches
and the process is repeated to convergence. Time-expanded decision networks are applicable, but not limited to, the design of systems, products, services and contracts.

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CEE doctoral student Zeid Alghareeb, who works with Professor John Williams in the MIT Geospatial Data Center, has been awarded a seed fund grant of $150,000 from the MIT Energy Initiative (MITEI) for his research proposal, "Optimum Decision-Making in Reservoir Management Using Reduced-Order Models."

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Reminder: the 6th Conference of MIT’s Learning International Networks Consortium (LINC) is coming up on June 16-19 at MIT. The title of the conference is “Realizing the Dream: Education Becoming Available to All. Will the World Take Advantage?” Read more here.

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The Ford-MIT Alliance is seeking ideas for new research projects to begin in January, 2014. Read more here.

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The deadline of papers submission of the international conference Complex Systems Design & Management 2013 is extended to Sunday, May 5th, 2013. Any academic or industrial papers concerning complex systems of all fields are welcome! More details available here.

PUBLICATION

Publication from ESD Post–Doctoral Researcher Navid Ghaffarzadegan:

IN THE MEDIA

Ernest Moniz among the nine MIT faculty members recently elected to the American Academy of Arts and Sciences
Nine MIT faculty members elected to the American Academy of Arts and Sciences”
MIT News - April 24, 2013

Also, ongoing coverage of Moniz’s nomination as Secretary of Energy, including:
“Moniz Nominated as Energy Secretary”
MIT Technology Review – April 23, 2013

“China Must Exploit Its Shale Gas” (op-ed)
The New York Times – April 12, 2013

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MIT News Office coverage of recent CTL event featuring president and CEO of the U.S. Chamber of Commerce
“Commerce’s call to action”
MIT News - April 12, 2013

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Edgar Blanco quoted in coverage on Wal-Mart
“Wal-Mart gives suppliers a deadline to disclose factory details”
Marketplace – American Public Media – April 15, 2013

Blanco also quoted in article on research on reducing emissions through logistics
“Going Green to Save Green”
Inbound Logistics – April 2013

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Bryan Reimer quoted in Tech Review story on self-driving car
“Proceed with Caution toward the Self-Driving Car”
MIT Technology Review – April 16, 2013

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Paul Lagace mentioned in MIT News article announcing plans to honor Officer Sean Collier
“MIT announces plans to commemorate Patrol Officer Sean Collier”
MIT News – April 22, 2013

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TPP student Jesse Jenkins quoted in article about a group of MIT students and postdocs who went to Capitol Hill to urge reversal of budget cuts
“MIT Science Policy Initiative members visit Capitol Hill to support funding for research and development”
MIT News – April 17, 2013

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MIT Sloan newsletter article about LGO student who interned at Verizon
“Managing reverse supply chain for a new LGO partner”
News@MITSloan – April 16, 2013

EVENTS

Wednesday, May 1, 2013
ESS Doctoral Seminar Series
Time: 12pm–1pm
Location: E40-298
Tom Heaps Nelson: Understanding Inter-firm R&D Expenditure Dynamics in Semiconductor Manufacturing Through Parsimonious Game Theoretic Modeling

Wednesday, May 1, 2013
SSRC Conversations on Complexity: Navigation and Mapping Technologies for Autonomous Vehicles
Prof. John Leonard, Co–Director, Ford–MIT Alliance Professor of Mechanical and Ocean Engineering
Time: 4:15pm–5:30pm
Location: E38-615
Monday, May 6, 2013
MIT SDM Systems Thinking Webinar Series
Technical Debt in Large Systems: Understanding the cost of software complexity
Daniel J. Sturtevant – PhD MIT and MIT SDM alumnus
Time: 12-1pm

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